

$$\text{Max } Z = 5X + 10Y$$

Y

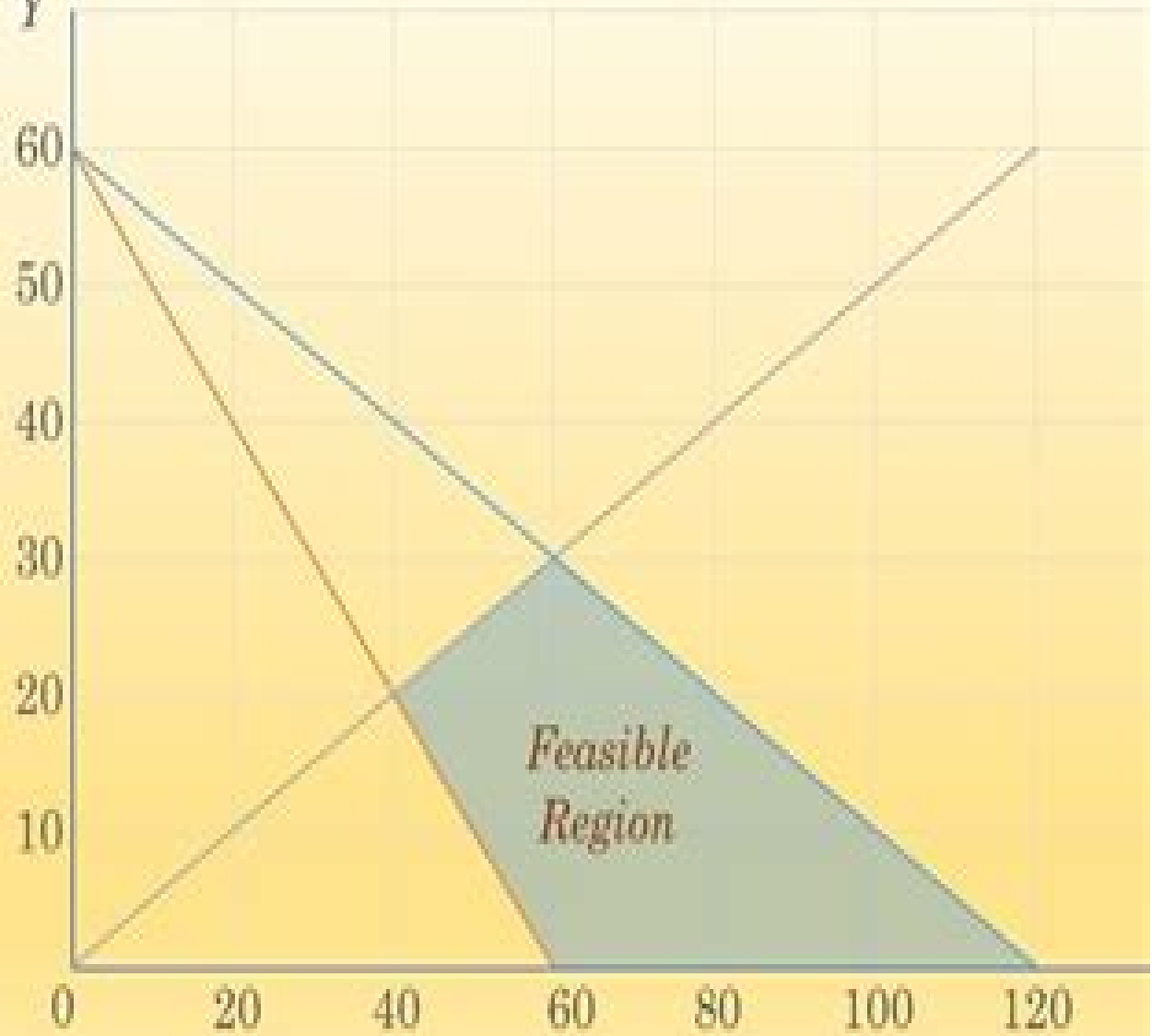
s.t.

$$1X + 2Y \leq 120$$

$$X + Y \geq 60$$

$$X - 2Y \geq 0$$

$$X, Y \geq 0$$



How To Find Optimal Solution Using Graphical Method

Dinesh Gupta



How To Find Optimal Solution Using Graphical Method

The Graphical Method for Finding the Optimal Solution for Neutrosophic linear Models and Taking Advantage of Non-Negativity Constraints to Find the Optimal Solution for Some Neutrosophic linear Models in Which the Number of Unknowns is More than Three

Maissam Jdid ,Florentin Smarandache,2023-01-01 The linear programming method is one of the important methods of operations research that has been used to address many practical issues and provided optimal solutions for many institutions and companies which helped decision makers make ideal decisions through which companies and institutions achieved maximum profit but these solutions remain ideal and appropriate in If the conditions surrounding the work environment are stable because any change in the data provided will affect the optimal solution and to avoid losses and achieve maximum profit we have in previous research reformulated the linear models using the concepts of neutrosophic science the science that takes into account the instability of conditions and fluctuations in the work environment and leaves nothing to chance While taking data neutrosophic values carry some indeterminacy giving a margin of freedom to decision makers In another research we reformulated one of the most important methods used to solve linear models which is the simplex method using the concepts of this science and as a continuation of what we did in the previous two researches we will reformulate in this research The graphical method for solving linear models using the concepts of neutrosophics We will also shed light on a case that is rarely mentioned in most operations research references which is that when the difference between the number of unknowns and the number of constraints is equal to one two or three we can also find the optimal solution graphically for some linear models This is done by taking advantage of the conditions of non negativity that linear models have and we will explain this through an example in which the difference is equal to two Also through examples we will explain the difference between using classical values and neutrosophic values and the extent of this s impact on the optimal solution

Graphical Method for Solving Neutrosophical Nonlinear Programming Models Maissam Jdid,Florentin Smarandache,2023-01-01 An important method for finding the optimal solution for linear and nonlinear models is the graphical method which is used if the linear or nonlinear mathematical model contains one two or three variables The models that contain only two variables are among the most models for which the optimal solution has been obtained graphically whether these models are linear or non linear in references and research that are concerned with the science of operations research when the data of the issue under study is classical data In this research we will present a study through which we present the graphical method for solving Neutrosophical nonlinear models in the following case A nonlinear programming issue the objective function is a nonlinear function and the constraints are linear functions Note that we can use the same method if i the objective function follower is a linear follower and the constraints are nonlinear ii the objective function is a non linear follower and the constraints are non linear In the three

cases the nonlinear models are neutrosophic and as we know the mathematical model is a nonlinear model if any of the components of the objective function or the constraints are nonlinear expressions and the nonlinear expressions may be in both. At the left end of the constraints are neutrosophic values at least one or all of them. Then the possible solutions to the neutrosophic nonlinear programming problem are the set of rays that fulfill all the constraints. As for the region of possible solutions it is the region that contains all the rays that fulfill the constraints. The optimal solution is the beam that fulfills all constraints and at which the function reaches a maximum or minimum value depending on the nature of the issue under study, noting that it is not necessary to be alone.

Neutrosophic linear models and algorithms to find their optimal solution
Florentin Smarandache, Maissam Ahmad Jdid, 2023-12-01

In this book we present a study of linear models and algorithms to find the optimal solution for them using the concepts of neuroscientific science. We know that the linear programming method is one of the important methods of operations research, the science that was the product of the great scientific development that our contemporary world is witnessing. The name operations research is given to the group of scientific methods used in analyzing problems and searching for optimal solutions; it is a science whose applications have achieved widespread success in various fields of life. What is meant by neutrosophic models are models in which the data are neutrosophic values, that is, variables such as in the objective function which expresses profit if the model is a maximization model and expresses a cost if the model is a minimization model, which in turn is affected by environmental conditions.

Neutrosophic Treatment of the Modified Simplex Algorithm to find the Optimal Solution for Linear Models
Maissam Jdid, Florentin Smarandache, 2023-01-01

Science is the basis for managing the affairs of life and human activities and living without knowledge is a form of wandering and a kind of loss. Using scientific methods helps us understand the foundations of choice, decision making and adopting the right solutions when solutions abound and options are numerous. Operational research is considered the best that scientific development has provided because its methods depend on the application of scientific methods in solving complex issues and the optimal use of available resources in various fields: private and governmental work in peace and war in politics and economics in planning and implementation and in various aspects of life. Its basic essence is to use the data provided for the issue under study to build a mathematical model that is the optimal solution. It is the basis on which decision makers rely in managing institutions and companies and when operations research methods meet with the neutrosophic teacher we get ideal solutions that take into account all the circumstances and fluctuations that may occur in the work environment over time. One of the most important operations research methods is the linear programming method. Which prompted us to reformulate the linear models, the graphical method and the simplex method which are used to obtain the optimal solution for linear models using the concepts of neutrosophic science. In this research and as a continuation of what we presented previously we will reformulate the modified simplex algorithm that was presented to address the difficulty that we were facing when applying the direct simplex algorithm. It is the large number of

calculations required to be performed in each step of the solution which requires a lot of time and effort

Practical Optimization Methods M. Asghar Bhatti, 2012-12-06 This introductory textbook adopts a practical and intuitive approach rather than emphasizing mathematical rigor Computationally oriented books in this area generally present algorithms alone and expect readers to perform computations by hand and are often written in traditional computer languages such as Basic Fortran or Pascal This book on the other hand is the first text to use Mathematica to develop a thorough understanding of optimization algorithms fully exploiting Mathematica's symbolic numerical and graphic capabilities

Methods for Advancing Combinatorial Optimization Over Graphical Models Natalia Flerova, 2015 Graphical models are a well known convenient tool to describe complex interactions between variables A graphical model defines a function over many variables that factors over an underlying graph structure One of the popular tasks over graphical models is that of combinatorial optimization Although many algorithms have been developed with this task in mind the vast majority are designed to find an optimal solution minimum or maximum of an objective function In many applications however it is desirable to obtain not just a single optimal solution but a set of the first m best solutions for some integer m The main part of this dissertation focuses on this problem which we call the m best optimization task We show that the m best task can be expressed within the unifying framework of semirings making known inference algorithms defined and their correctness and completeness for the m best task immediately implied We subsequently describe $\text{elim } m \text{ opt}$ a new bucket elimination algorithm for solving the m best task provide algorithms for its defining combination and marginalization operators and analyze its worst case performance An extension of the algorithm to the mini bucket framework provides bounds for each of the m best solutions Subsequently we extend existing search algorithms to the m best task We present a new algorithm m A and prove that all A's desirable properties including soundness completeness and optimal efficiency are maintained Since best first algorithms require extensive memory we also extend the memory efficient depth first branch and bound to the m best task We adapt both algorithms to optimization tasks over graphical models e.g. Weighted Constraint Satisfaction Problems and Most Probable Explanation in Bayesian networks and provide complexity analysis and an empirical evaluation Our experiments with 5 variants of best first search and depth first branch and bound search confirm that the best first approach is largely superior when memory is available but branch and bound is more robust We also demonstrate that both styles of search benefit greatly from the heuristic evaluation function with increased accuracy Unlike the leading previously developed m best schemes that utilize LP relaxation techniques e.g. algorithms by Fromer and Globerson 2009 and Batra 2012 our algorithms always guarantee solution optimality We will show that when the number of required solutions is small our m best search schemes are quite competitive with these related algorithms in terms of runtime while for a larger number of required solutions our methods are by far superior The second part of this thesis focuses on finding approximate solutions to optimization problems Unfortunately solving exactly optimization problems over complex models that represent intricate

dependencies occurring in real life domains can often be infeasible within practical time and space limits Many approximation schemes exist but most of them do not come with any solution sub optimality guarantees We apply the ideas of weighted heuristic search popular in path finding to graphical models yielding new search algorithms that not only provide sub optimality bounds but also utilize extra available time and space to improve the accuracy of the solution in an anytime manner and if resources are available eventually terminate with an optimal solution We report on a significant empirical evaluation demonstrating the usefulness of weighted best first search as approximation anytime schemes that have sub optimality bounds and compare against one of the best depth first branch and bound solvers to date We also investigate the impact of different heuristic functions on the behavior of the algorithms Additionally we explore several algorithms taking advantage of two common approaches for bounding MPE queries in graphical models mini bucket elimination and message passing updates for linear programming relaxations Each method offers a useful perspective for the other our hybrid approaches attempt to balance the advantage of each We demonstrate the power of our hybrid algorithms through extensive empirical evaluation Most notably a branch and bound search guided by the heuristic functions calculated by our new scheme won the first place in the 2011 Pascal2 inference challenge

Using Duality and Sensitivity Analysis to

Interpret Linear Programming Solutions James Edmund Reeb,2000

Linear Programming for Beginners Doris

Lloyd Grosh,2010 This book fills a gap in the linear programming literature by explaining the steps that are illustrated but not always fully explained in every elementary operations book the steps that lead from the elementary and intuitive graphical method of solution to the more advanced simplex tableau method Most of the world even those technically trained can get along very well by seeing a few illustrations of simple linear programming problems solved graphically followed by instruction in the use of computer software for solving real world problems But there needs to be a coterie of initiates who understand the process well enough to explain it to others to know what the pitfalls ramifications and special cases are and to provide further developments I have used an informal narrative style with a number of worked out examples and detailed explanations to put the topic within reach

Strategic allocation of resources using linear programming model with parametric analysis: in MATLAB and Excel Solver Dinesh Gupta,2014-05-01

Since the late 1940s linear programming models have been used for many different purposes Airline companies apply these models to optimize their use of planes and staff NASA has been using them for years to optimize their use of limited resources Oil companies use them to optimize their refinery operations Small and medium sized businesses use linear programming to solve a huge variety of problems often involving resource allocation In my study a typical product mix problem in a manufacturing system producing two products each product consists of two sub assemblies is solved for its optimal solution through the use of the latest versions of MATLAB having the command `simlp` which is very much like `linprog` As analysts we try to find a good enough solution for the decision maker to make a final decision Our attempt is to give the mathematical description of the product mix optimization

problem and bring the problem into a form ready to call MATLAB's `simlp` command. The objective of this study is to find the best product mix that maximizes profit. The graph obtained using MATLAB commands give the shaded area enclosed by the constraints called the feasible region which is the set of points satisfying all the constraints. To find the optimal solution we look at the lines of equal profit to find the corner of the feasible region which yield the highest profit. This corner can be found out at the farthest line of equal profit which still touches the feasible region. The most critical part is the sensitivity analysis using Excel Solver and Parametric Analysis using computer software which allows us to study the effect on optimal solution due to discrete and continuous change in parameters of the LP model including to identify bottlenecks. We have examined other options like product outsourcing, one-time cost, cross-training of one operator, manufacturing of hypothetical third product on under-utilized machines and optimal sequencing of jobs on machines.

Graph Theory: Binary

Optimization N.B. Singh, *Graph Theory Binary Optimization* introduces fundamental graph theory concepts and their practical applications in binary optimization. This beginner-friendly book explains how graphs model real-world problems like network design and scheduling, equipping readers with essential skills in optimization techniques. *Understanding and Using Linear Programming* Jiri Matousek, Bernd Gärtner, 2007-07-04. The book is an introductory textbook mainly for students of computer science and mathematics. Our guiding phrase is what every theoretical computer scientist should know about linear programming. A major focus is on applications of linear programming both in practice and in theory. The book is concise but at the same time the main results are covered with complete proofs and in sufficient detail ready for presentation in class. The book does not require more prerequisites than basic linear algebra which is summarized in an appendix. One of its main goals is to help the reader to see linear programming behind the scenes. *Algorithms* Sanjoy Dasgupta, Christos H. Papadimitriou, Umesh Virkumar Vazirani, 2006. This text extensively class-tested over a decade at UC Berkeley and UC San Diego explains the fundamentals of algorithms in a story line that makes the material enjoyable and easy to digest. Emphasis is placed on understanding the crisp mathematical idea behind each algorithm in a manner that is intuitive and rigorous without being unduly formal. Features include: The use of boxes to strengthen the narrative pieces that provide historical context; descriptions of how the algorithms are used in practice and excursions for the mathematically sophisticated; carefully chosen advanced topics that can be skipped in a standard one-semester course but can be covered in an advanced algorithms course or in a more leisurely two-semester sequence. An accessible treatment of linear programming introduces students to one of the greatest achievements in algorithms. An optional chapter on the quantum algorithm for factoring provides a unique peephole into this exciting topic. In addition to the text, DasGupta also offers a Solutions Manual which is available on the Online Learning Center. *Algorithms* is an outstanding undergraduate text equally informed by the historical roots and contemporary applications of its subject. Like a captivating novel, it is a joy to read. Tim Roughgarden, Stanford University.

Linear and Integer Optimization Gerard Sierksma, Yori Zwols, 2015-05-01. Presenting a strong and clear relationship

between theory and practice Linear and Integer Optimization Theory and Practice is divided into two main parts The first covers the theory of linear and integer optimization including both basic and advanced topics Dantzig s simplex algorithm duality sensitivity analysis integer optimization models

Linear Optimization Glenn Hurlbert,2009-11-09 The Subject A little explanation is in order for our choice of the title Linear Optimization and corresponding terminology for what has traditionally been called Linear Programming The word programming in this context can be confusing and or misleading to students Linear programming problems are referred to as optimization problems but the general term linear programming remains This can cause people unfamiliar with the subject to think that it is about programming in the sense of writing computer code It isn t This workbook is about the beautiful mathematics underlying the ideas of optimizing linear functions subject to linear constraints and the algorithms to solve such problems In particular much of what we discuss is the mathematics of Simplex Algorithm for solving such problems developed by George Dantzig in the late 1940s The word program in linear programming is a historical artifact When Dantzig first developed the Simplex Algorithm to solve what are now called linear programming problems his initial model was a class of resource location problems to be solved for the U S Air Force The decisions about the allocations were called Programs by the Air Force and hence the term

Linear Programming and Network Flows Mokhtar S. Bazaraa, John J. Jarvis, Hanif D. Sherali, 2011-08-10 Linear Programming and Network Flows now in its third edition addresses the problem of minimizing or maximizing a linear function in the presence of linear equality or inequality constraints This book Provides methods for modeling complex problems via effective algorithms on modern computers Presents the general theory and characteristics of optimization problems along with effective solution algorithms Explores linear programming LP and network flows employing polynomial time algorithms and various specializations of the simplex method

Optimization Methods in Operations Research and Systems Analysis K. V. Mital, 1983

Iterative Methods in Combinatorial Optimization Lap Chi Lau, R. Ravi, Mohit Singh, 2011-04-18 With the advent of approximation algorithms for NP hard combinatorial optimization problems several techniques from exact optimization such as the primal dual method have proven their staying power and versatility This book describes a simple and powerful method that is iterative in essence and similarly useful in a variety of settings for exact and approximate optimization The authors highlight the commonality and uses of this method to prove a variety of classical polyhedral results on matchings trees matroids and flows The presentation style is elementary enough to be accessible to anyone with exposure to basic linear algebra and graph theory making the book suitable for introductory courses in combinatorial optimization at the upper undergraduate and beginning graduate levels Discussions of advanced applications illustrate their potential for future application in research in approximation algorithms

Problems in Operations Research (Principles and Solutions) D S Hira, 1995 We take great pleasure in presenting to the readers the second thoroughly revised edition of the book after a number of reprints The suggestions received from the readers have been carefully incorporated in this edition

and almost the entire subject matter has been reorganised revised and rewritten Topics in Linear Programming and Games Theory Lakshmisree Bandopadhyaya,2007 Salient Features This book gives methodical and step by step explanation of the Simplex Method which is missing in most of the available books The book goes on as a teacher explaining and simplifying the topics to a student All the university question paper problems with 74 examples and 81 exercises illustrate the methodology Problems solved by Graphical Method are explained with neat and accurate graphs Twenty One Theorems with proofs and corollaries will facilitate logical understanding of the subject Detailed explanations are given to make the reader confident about the subject **Linear Programming** Robert J Vanderbei,2013-07-16 This Fourth Edition introduces the latest theory and applications in optimization It emphasizes constrained optimization beginning with a substantial treatment of linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization Readers will discover a host of practical business applications as well as non business applications Topics are clearly developed with many numerical examples worked out in detail Specific examples and concrete algorithms precede more abstract topics With its focus on solving practical problems the book features free C programs to implement the major algorithms covered including the two phase simplex method primal dual simplex method path following interior point method and homogeneous self dual methods In addition the author provides online JAVA applets that illustrate various pivot rules and variants of the simplex method both for linear programming and for network flows These C programs and JAVA tools can be found on the book s website The website also includes new online instructional tools and exercises

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